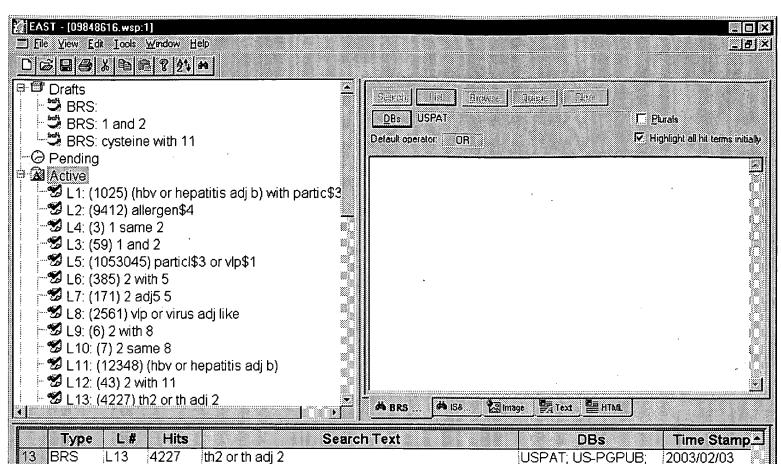
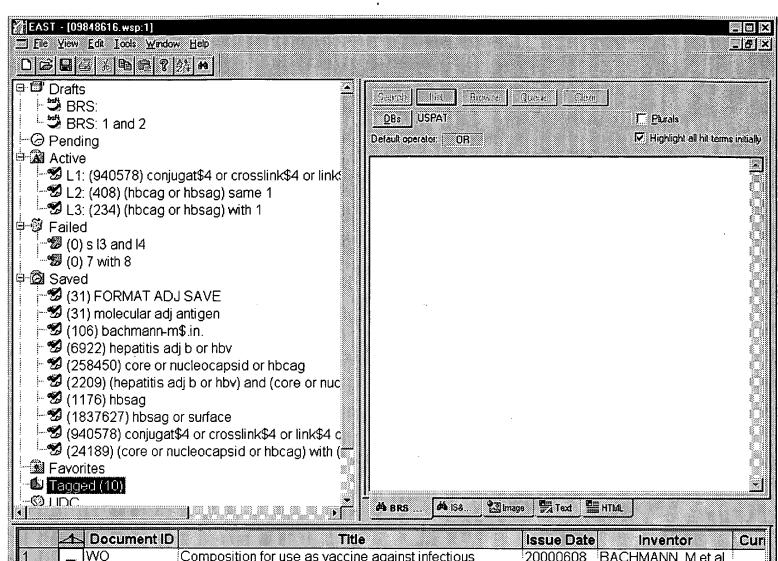


	Туре	L#	Hits	Search Text	DBs	Time Stamp
1	BRS	L1	1025	(hbv or hepatitis adj b) with partic\$3	USPAT; US-PGPUB;	2003/02/03
					EPO; JPO; DERWENT	09:03
2	BRS	L2	9412	allergen\$4	USPAT; US-PGPUB;	2003/02/03
					EPO; JPO; DERWENT	08:50
3	BRS	L4 ·	3	1 same 2	USPAT; US-PGPUB;	2003/02/03
			<u> </u>	,	EPO; JPO; DERWENT	08:50
4	BRS	L3	59	1 and 2		2003/02/03
					EPO; JPO; DERWENT	09:00
5	BRS	L5	105304	particl\$3 or vlp\$1		2003/02/03
			5		EPO; JPO; DERWENT	ineman
6	BRS	L6	385	2 with 5		2003/02/03
 	1		474		EPO; JPO; DERWENT	[
7	BRS	L7	171	2 adj5 5		2003/02/03
8	BRS		2524	And and the second seco	EPO; JPO; DERWENT	: :
Ø	BK2	L8	2561	vlp or virus adj like		2003/02/03
9	BRS	L9	6	2 with 8	EPO; JPO; DERWENT	
9	סאם	L9	6	2 WILT 8		2003/02/03
10	BRS	L10	7	2 same 8	EPO; JPO; DERWENT	(******
10	כאטן	LIU	'	2 Same o		2003/02/03
111	BRS	L11	12348	(hbv or hepatitis adj b)	EPO; JPO; DERWENT USPAT; US-PGPUB;	2003/02/03
	DICO	L 1 1	12340	(up) or riepairing adj b)	EPO; JPO; DERWENT	
12	BRS	L12	43	2 with 11		2003/02/03
		- 12		2 44101 1 1	EPO; JPO; DERWENT	
13	BRS	L13	4227	th2 or th adj 2		2003/02/03
					EPO; JPO; DERWENT	; ::2
14	BRS	L14	31	13 same 11		2003/02/03
				!	EPO; JPO; DERWENT	
15	BRS	FAMIL	1		DERWENT	2003/02/03
<u> </u>		Υ	*************			09:14
					***************************************	8



	Туре	L#	Hits	Search Text	DBs	Time Stamp	
13	BRS	L13	4227	th2 or th adj 2	USPAT; US-PGPUB;	2003/02/03	
			<u> </u>		EPO; JPO; DERWENT	09:12	
14	BRS	L14 ,.	31	13 same 11	USPAT; US-PGPUB;	2003/02/03 09:12	
					EPO; JPO; DERWENT		
15	BRS	FAMIL	1	1998-520792.NRAN.	DERWENT	2003/02/03	
		Υ	<u></u>			09:14	
16	BRS	L18	208	cysteine ti.	USPAT	2003/02/03	
L.						09:47	
17	BRS	L19	5	11 and 18	USPAT	2003/02/03	
40			0440			10:00	
18	BRS	L20	2146	cysteine.ti.	USPAT; US-PGPUB;	2003/02/03	
19	BRS	L21	40	200 4.44	EPO; JPO; DERWENT	(n. 1900-1900) (1900-1900) (1900-1900) (1900-1900) (2. 1990)	
19	BKS	LZT	10	20 and 11		2003/02/03	
20	BRS	1.33	27	a pataina with 11	EPO; JPO; DERWENT	Name	
20		L22 .	31 .	cysteine with 11		2003/02/03	
21	BRS	L23	113	cysteine with depleted	EPO; JPO; DERWENT USPAT; US-PGPUB;		
21	באם	LZO	113	cysteme with depleted	EPO; JPO; DERWENT	2003/02/03	
22	BRS	L24	246268	conjugat\$4 or cross or crosslink\$4		2003/02/03	
	DI CO	LZT	7	conjugation of cross of crossilling	EPO; JPO; DERWENT		
23	BRS	L25	1	23 same 24	USPAT: US-PGPUB:		
					EPO; JPO; DERWENT		
24	BRS	L26	92	23 and 24		2003/02/03	
					EPO; JPO; DERWENT		
25	BRS	L27	5433	cysteine with (replac\$3 or substitut\$4)		2003/02/03	
					EPO; JPO; DERWENT		
26	BRS	L28	464	27 with 24		2003/02/03	
					EPO; JPO; DERWENT	10:09	
27	BRS	L30	0	28 same 11		2003/02/03	
L			***************************************	**************************************	EPO; JPO; DERWENT		
28	BRS	L29	277	28 and 11	•	2003/02/03	
<u> </u>					EPO; JPO; DERWENT	10:09	
lai						<u> </u>	



	0000000000	Document ID	Title	Issue Date	Inventor	Cun
1	בו	WO 200032227 A	Composition for use as vaccine against infectious diseases and in treatment of cancer and allergies	20000608	BACHMANN, M et al.	
2	V	WO 2056905 A2	MOLECULAR ANTIGEN ARRAY	20020725	RENNER, WOLFGANG A et al.	***************************************
3	ᅜ		Molecular antigen array used in the production of vaccines for infectious diseases	20020725	BACHMANN, M et al.	
4	7		Molecular antigen array used in the production of vaccines for infectious diseases	20020725	BACHMANN, M et al.	
5	V	:	New composition, useful for vaccine production, comprises antigen or antigenic determinant and	20011115	BACHMANN, M et al.	
6	R	US 5324513 A	Composition useful for the fabrication of vaccines	19940628	Sobczak, Eliane et al.	424/2
7	V	US 6231864 B1	Strategically modified hepatitis B core proteins and their derivatives	20010515	Birkett, Ashley J.	424/ ⁻
8	V	US 6355414 B1	Immunopotentiating formulations for vaccinal use	20020312	Aguilar Rubido, Julio Cesar et al.	435/5
9	V	!	Combined hepatitis and herpesvirus antigen compositions	20020917	Stephenne, Jean et al.	424/2
10	V		Immunogens containing peptides with an attached hydrophobic tail for adsorption to hepatitis B virus surface		Neurath, Alexander R.	424/

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(C) Details

18/7/1 DIALOG(R)File 155:MEDLINE(R)

13927589 22153991 PMID: 12163261

A molecular assembly system that renders antigens of choice highly repetitive for induction of protective B cell responses.

Jegerlehner Andrea; Tissot Alain; Lechner Franziska; Sebbel Peter; Erdmann Iris; Kundig Thomas; Bachi Thomas; Storni Tazio; Jennings Gary; Pumpens Paul; Renner Wolfgang A; Bachmann Martin F; et al

Cytos Biotechnology AG, CH-8952 Schlieren-Zurich, Switzerland.

Vaccine (England) Aug 19 2002, 20 (25-26) p3104-12, ISSN 0264-410X

Journal Code: 8406899

Document type: Journal Article

Languages: ENGLISH
Main Citation Owner: NLM
Record type: In Process

Virus like particles (VLPs) are known to induce potent B cell responses in the absence of adjuvants. Moreover, epitope-specific antibody responses may be induced by VLPs that contain peptides inserted in their immunodominant regions. However, due to steric problems, the size of the peptides capable of being incorporated into VLPs while still permitting capsid assembly, is rather limited. While peptides genetically fused to either the N- or C-terminus of VLPs present fewer assembly problems, the immune responses obtained against such epitopes are often limited, most likely because the epitopes are not optimally exposed. In addition, such particles may be less stable in vivo. Here, we show that peptides and proteins engineered to contain a free cys can be chemically coupled to VLPs formed from the hepatitis B core antigen (HBcAg) containing a lys in the immuno-dominant region. By using this approach steric hindrance of capsid assembly is abrogated. Peptides or protein coupled to VLPs in an oriented fashion are shown to induce strong and protective B cell responses even against self-epitopes in the absence of adjuvants. This molecular assembly system may be used to induce strong B cell responses against most antigens. Copyright 2002 Elsevier Science Ltd.

Record Date Created: 20020806

18/7/3
DIALOG(R)File 155:MEDLINE(R)

10853039 20404849 PMID: 10949916

Insertion of foreign epitopes in HBcAg: how to make the chimeric particle assemble.

Karpenko L I; Ivanisenko V A; Pika I A; Chikaev N A; Eroshkin A M; Veremeiko T A; Ilyichev A A